



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application No. 10/754,390

Applicant: Prasad et al.

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P.O. Box 1450  
Alexandria, VA 22313-1450

**DECLARATION UNDER 37 C.F.R. § 1.132 OF  
ABANESHWAR PRASAD**

I, Abaneshwar Prasad, hereby declare that:

1. I am employed by Cabot Microelectronics Corporation. I am one of the co-inventors of the subject matter disclosed and claimed in the subject patent application.
2. I have a Ph.D. in polymer physics from Florida State University and was a National Science Foundation post-doctoral research and teaching fellow at Virginia Polytechnic Institute and State University. I have worked in industry since 1992. I was employed as a senior research scientist at Equistar Chemical Company for 8.5 years and have been employed at Cabot Microelectronics Corporation as a senior scientist for 4.5 years. I have published more than 25 articles and book chapters relating to various aspects of polymer physics.
3. Conventional porous polymeric materials having a positive Poisson's ratio contract laterally when stretched. Contrastingly, a porous polymeric material having a negative Poisson's ratio *expands* laterally when stretched. All known porous polymeric materials have a positive Poisson's ratio unless they are specially treated so as to convert them into a material having a negative Poisson's ratio (see Lee et al. *Anisotropic Polyurethane Foam With Poisson's Ratio Greater Than One*, Journal of Materials Science,

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